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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/767,783	01/29/2004	Shintaro Honjo	OKUYAM 3.0-007	7290
530 77500 6771025008 LERNER, DAVID, LITTENBERG, KRUMHÓLZ & MENTLIK 600 SOUTH AVENUE WEST			EXAMINER	
			JOHNSON, EDWARD M	
WESTFIELD,			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			07/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.	Applicant(s)	
10/767,783	HONJO ET AL.	
Examiner	Art Unit	
Edward M. Johnson	1793	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 GFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the maining date of the communication.
If NO ACM of for risk js instruction is not communication period will apply and will expres SM (6) MONTHS from the mailing date of this communication.  Failure to regive with the sate of extended period or reply will by statute, cause the application to bocome ABANDONED (63 LISC, 61 33).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any camered patient term adjustment. See 37 CFR 1,740F.
Status
1) Responsive to communication(s) filed on 25 February 2008.
2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4) Claim(s) 1-9 is/are pending in the application.
4a) Of the above claim(s) 1-4 is/are withdrawn from consideration.
5) Claim(s) is/are allowed.
6)⊠ Claim(s) <u>5-9</u> is/are rejected.
7) Claim(s) is/are objected to.
8) Claim(s) are subject to restriction and/or election requirement.
Application Papers
9)☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>
<ol><li>Certified copies of the priority documents have been received in Application No</li></ol>
3. Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
Attachment(s)

1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SE/D8) Paper Nots/Mail Date	4) Interview Summary (PTO-413) Paper No(s)Mail Date. 5) Notice of Informal Patent Application 6) Other:	
S. Patent and Trademark Office		

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### DETAILED ACTION

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iida et al. US 6,638,485.

Regarding claim 5, Iida discloses a method for removing exhaust gas from mercury comprising adding a mercury chlorinating agent and ammonia to exhaust gas to convert the mercury to mercury chloride, passing to a NOx/ammonia reactor, and passing through a scrubbing tower.

Iida fails to disclose oxidizing mercury on the downstream side of the ammonia decomposition.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to oxidize mercury on the downstream side of ammonia composition because the reaction of mercury chloride and SOx is disclosed as being at the end of the process, which would motivate an ordinarily skilled artisan to

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oxidize mercury either at the beginning or on the downstream side of the ammonia decomposition, so long as it occurs before the scrubbing tower, as disclosed in Iida.

Regarding claims 6-9, Iida discloses the specific process conditions including ammonia levels and it would have been obvious to on of ordinary skill in the art at the time the invention was made to use optimal temperature zones of 120-450 degrees achieved through routine experimentation.

#### Response to Arguments

Applicant's arguments filed 2/25/08 have been fully considered but they are not persuasive.

It is argued that first, Iida does not teach... the claimed invention. This is not persuasive because Iida discloses ammonia decomposition in the disclosed reaction (see column 1, lines 45-48).

It is argued that Iida provides no disclosure...

denitrification and oxidation. This is not persuasive for the reasons above and also because it would have been obvious to one of ordinary skill in the art at the time the invention was made to oxidize mercury on the downstream side of ammonia composition because the reaction of mercury chloride and SOx is disclosed as being at the end of the process, which would motivate an ordinarily skilled artisan to oxidize mercury either at the

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beginning or on the downstream side of the ammonia decomposition, so long as it occurs before the scrubbing tower, as disclosed in Iida.

It is argued moreover, the claimed invention... disclosed in Iida. This is not persuasive because even if true, Iida nowhere teaches away from the claimed invention. The fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See Ex parte Obiaya, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985).

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward M. Johnson whose telephone number is 571-272-1352. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley S. Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199

(IN USA OR CANADA) or 571-272-1000.

/Edward M. Johnson/ Primary Examiner Art Unit 1793

EMJ